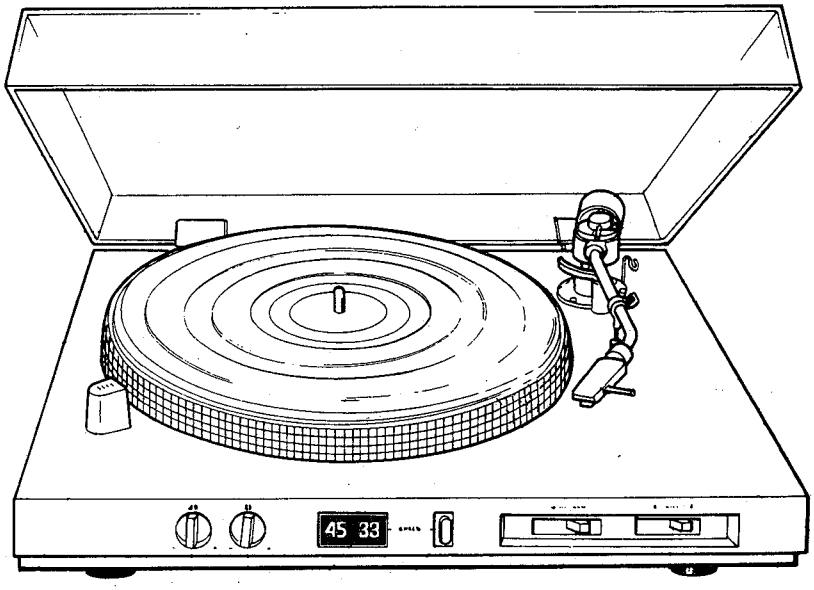
SERVICE MANUAL

Miida

P 2800

Direct Drive Turntable



SPECIFICATIONS

MOTOR AND TURNTABLE

Drive system:	Direct drive system
Motor:	Brushless DC motor
Speeds:	33-1/3 and 45 rpm.
Speed control range:	Within ±3% (individual control for 33-1/3 and 45 rpm.)
Wow and flutter:	No more than 0.045 % (WRMS)
Signal to noise ratio:	DIN-B 45dB
Turntable platter:	31cm diameter aluminium alloy die-cast

TONEARM

Type:	Static-balance type, S-shaped pipe arm.
Effective arm length:	216mm
Overhang:	16mm
Usable cartridge weight:	4—10 grams

GENERAL

Other features:	Anti-skating device, Plug-in type headshell, Stylus pressure direct-readout counter-weight, Strobo-lighting.
Power requirements:	220/110V AC, 50/60Hz
Dimensions:	443(W) x 370(D) x 135(H) mm
Accessories:	45 rpm Adaptor, Headshell, Main weight, Anti-skating Weight, Screwdriver

Specifications and design are subject to change without notice.

VOLTAGE CONVERSION

To change the operating voltage from 220V to 110V, proceed as follows.
Disconnect the wires which is connected to the terminal number 4, and change these wiring as shown dotted line.

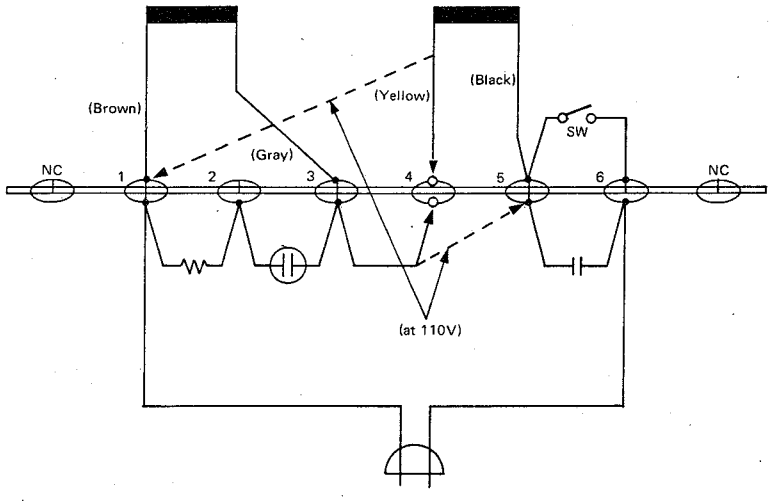


Fig. 1

ADJUSTMENTS

ADJUSTMENT OF TURNTABLE SPEED

The turntable speed can be adjusted by the controls on the motor pc board. Set the speed control knob on the front panel to mid position. Adjust turntable speed with the carbon trimmers (See Fig. 2) while using the built-in strobo-lamp.

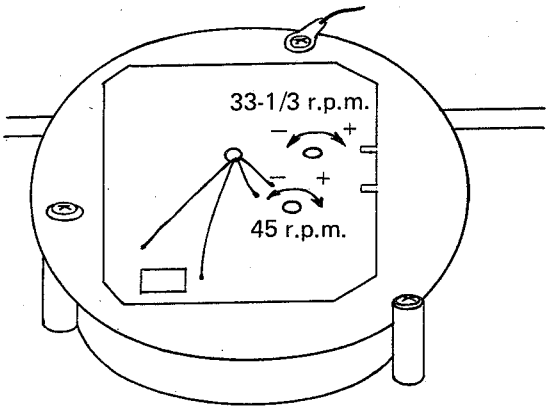


Fig. 2

ADJUSTMENT OF TONEARM RETURN

The position that the tonearm starts an auto return operation can be adjusted by the screw located in the hole beside the tonearm base. Place a disc on the turntable and play it. If the tonearm returns automatically before play comes to an end, turn the screw clockwise. If the tonearm does not return automatically, turn it counter clockwise. (See Fig. 3)

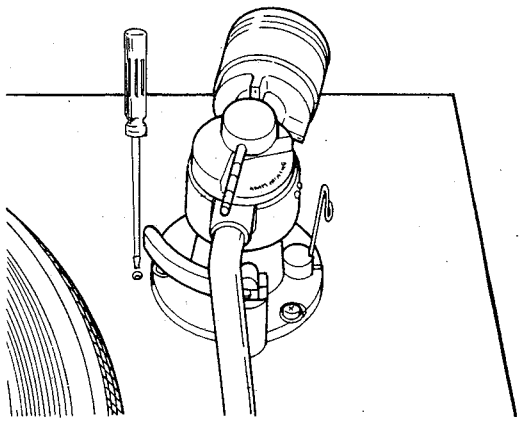


Fig. 3

ADJUSTMENT OF TONEARM HEIGHT

Disconnect the power cord from AC line. Place a disc on the turntable. Move the tonearm on the disc and operate the reject lever. Rotate the turntable in the clockwise with your hand, and stop it when the tonearm raises the highest level. Adjust the height of the arm-lifter with a screw driver so that the stylus tip is held 9—12mm above the record surface.

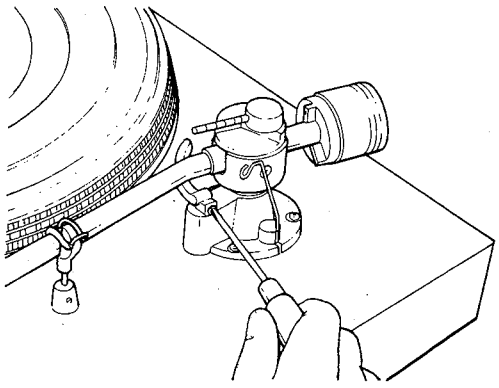


Fig. 4

ADJUSTMENT OF CUEING MECHANISM

Keep the tonearm in the arm-rest and set the cueing lever in the up position. Secure the polycarbonate screw (A) fully clockwise and then loose it two turns. Turn two nuts (B), (C) until the tip of the polycarbonate screw is positioned 1mm below from the top end of slope on the slide arm. Turn other two nuts (D), (E) until the spring is held 1mm stretch from completely pressed condition. Adjust the polycarbonate screw so that the stylus tip is held 5—6mm above record surface.

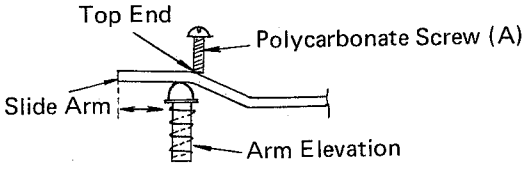


Fig. 5

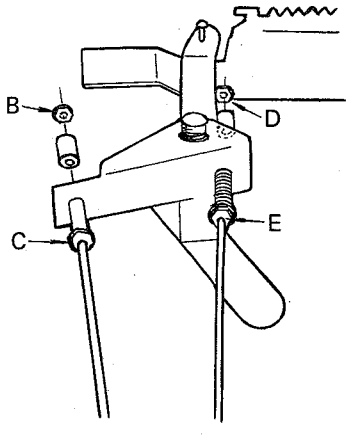
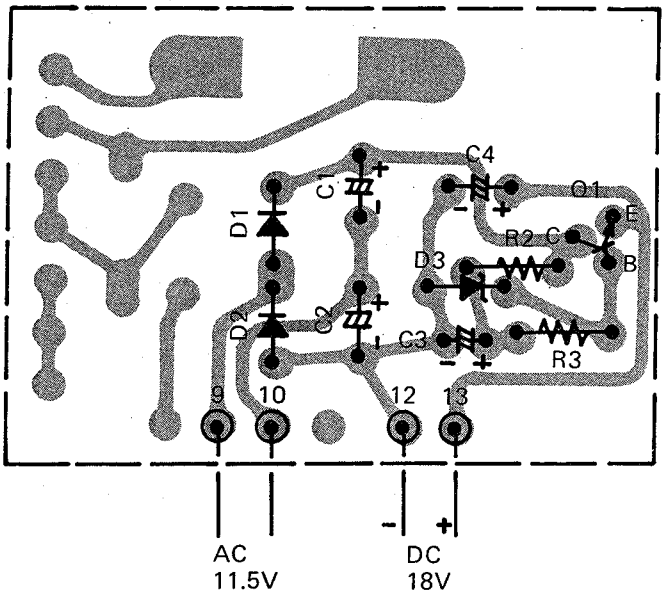


Fig. 6

POWER SUPPLY PC BOARD

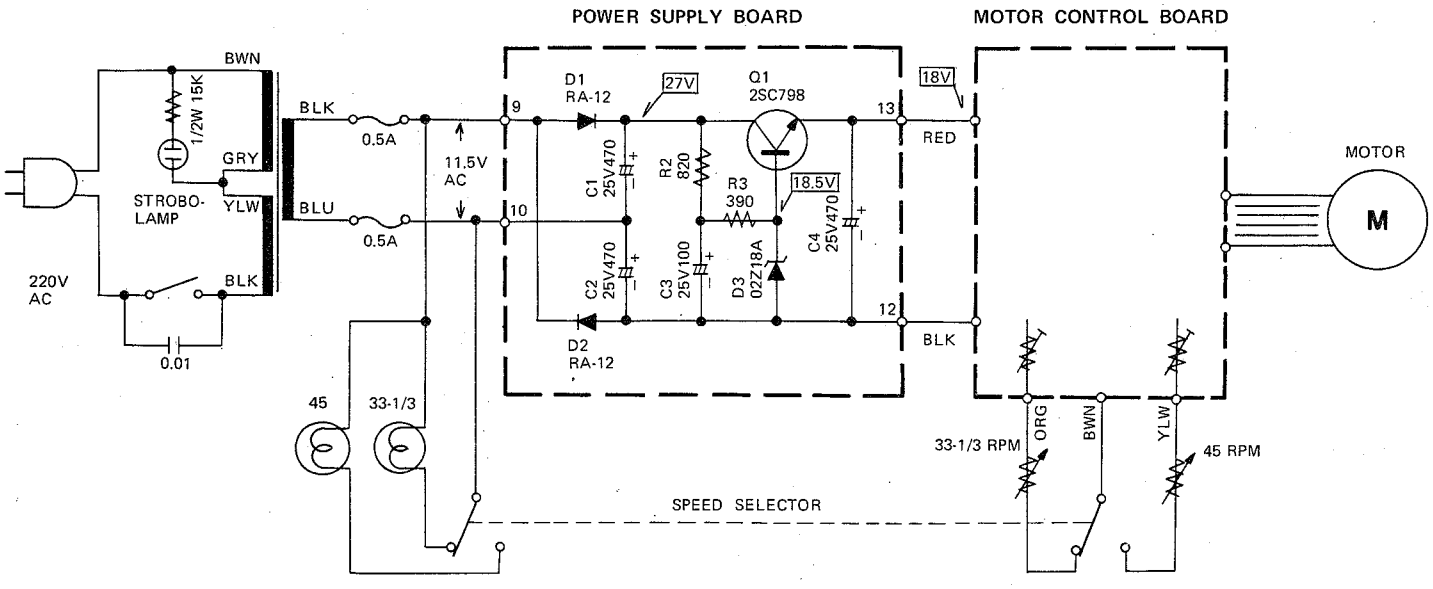
X-RAY VIEW



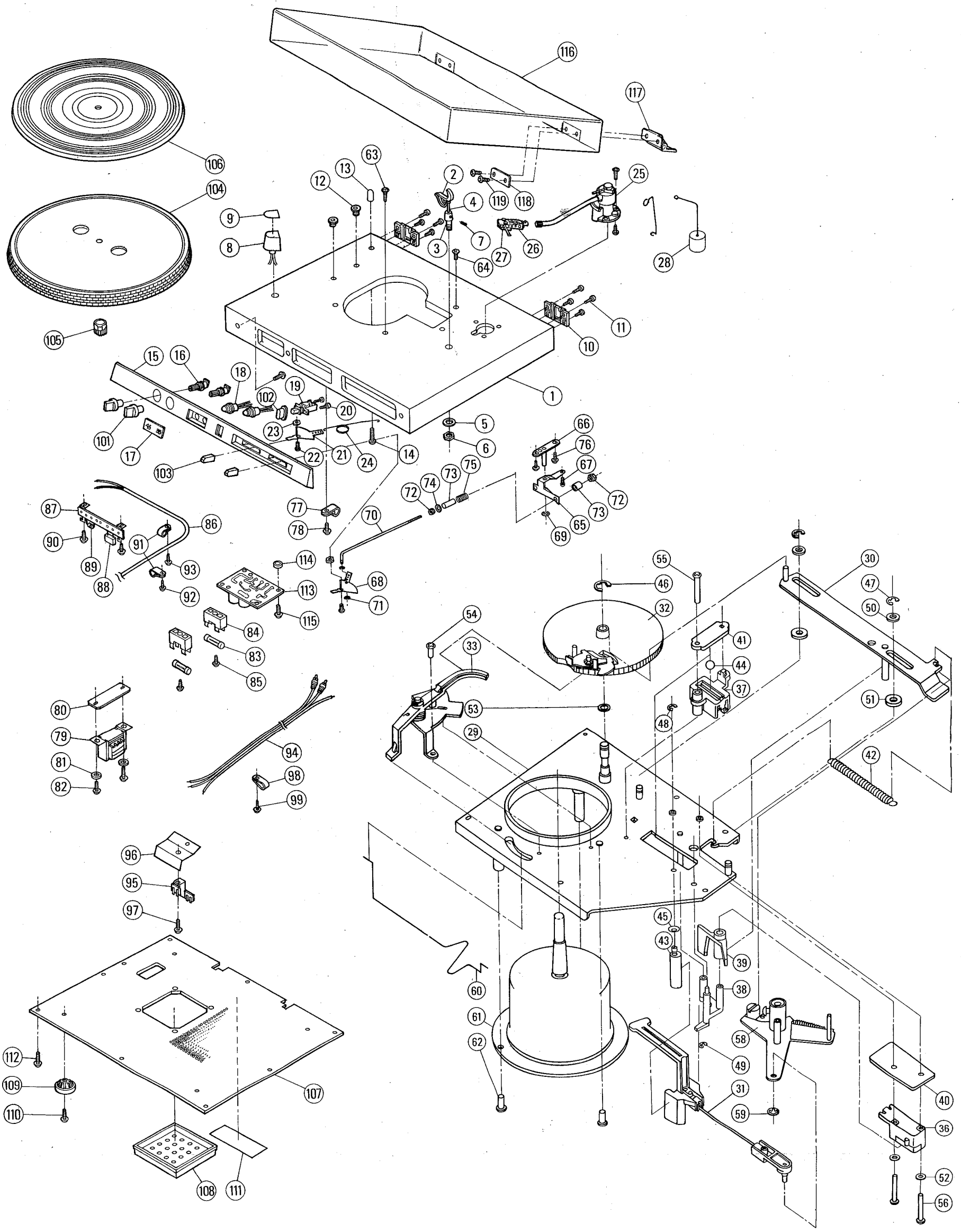
PARTS LIST

Symbol No.	Description	Part No.
Q1	Transistor 2SC798	D01-0001-00
D1, 2	Si. Diode RA-12	D11-0001-00
D3	Zener Diode 02Z18A	D13-0001-00
C1, 2, 4	Electrolytic Capacitor 25V 470μF	C01-0002-00
C3	Electrolytic Capacitor 25V 100μF	C01-0003-00
R2	Carbon Resistor 1/4W, 820 ohm, ±5%	R01-0002-00
R3	Carbon Resistor 1/4W, 390 ohm, ±5%	R01-0001-00
—	Wiring Pin	E11-0001-00
—	Spacer	T04-0026-00

SCHEMATIC DIAGRAM



EXPLODED DIAGRAM



PARTS LIST

Ref. No.	Part No.	Description	Q'ty
		CABINET	
1	B05-0030-04	Cabinet (MP3200)	1
1	B05-0031-00	Cabinet (P2800)	1
		TONEARM REST ASS'Y	
	A12-0006-00	Tonearm Rest Ass'y	
2	A12-0007-00	Rest Ass'y	1
3	A13-0005-00	Arm Rest Stand	1
4	A13-0006-00	Arm Rest Shaft	1
5	ϕ6.5xϕ11.5x 0.8t (Fe)	Flat Washer	1
6	M6x0.75x2t	Nut (for tube)	1
7	M3x4	Rest Tightening Screw	1
		STROBO SCOPE ASS'Y	
	D72-0008-00	Strobo Scope Ass'y	
8	D72-0002-00	Strobo Lamp Ass'y	1
9	B14-0038-00	Cover Plate	1
		OTHER PARTS ON CABINET	
10	B11-0007-00	Lock Plate	2
11	M3x8A	Self Tapping Screw	8
12	M3	Built-in Cabinet Nut	2
13	T04-0027-00	EP Adaptor Set Pin	1
14	M3x12	Polycarbonate Screw	1
		FRONT PANEL ASS'Y	
	B13-0004-00	Front Panel Ass'y	
15	B14-0032-00	Front Panel (MP3200)	1
15	B14-0035-00	Front Panel (P2800)	1
16	R10-0002-00	Potentiometer	2
17	B14-0037-00	Speed Indicating Plate	1
18	D73-0001-00	Pilot Lamp Ass'y	2
19	S02-0004-00	Push Switch	1
20	ϕ3x6	Fixing Screw	2
21	T02-0043-00	Cueing Lever	2
22	M3x10	Machine Screw	2
23	M3, 5.5	Nut	2
24	T10-0018-00	Cut Wire	1
		TONEARM ASS'Y	
25	A01-0036-01	Tonearm Ass'y	1
26	A10-0006-00	Shell Ass'y	1
27	A05-0004-00	Cartridge	1
	(MG-2)	(Stylus)	(1)
28	A14-0002-00	Anti Skating Weight	1
		AUTO RETURN MECHANISM ASS'Y	
	A20-0012-00	Auto Return Mech. Ass'y	
29	20002	Base Plate Ass'y	1
30	K-1882	Slide Arm Ass'y	1
31	30001	Trip Slide Ass'y	1
32	40001	Gear Mech. Ass'y	1
33	40002	Reject Arm Ass'y	1
36	K-1917-06	Micro Switch	1
37	45001	TS Holder	1

Ref. No.	Part No.	Description	Q'ty
38	K-1873	Holder	1
39	K-1874	Lever	1
40	—	Insulator Plate	1
41	SPEC T16	Plate	1
42	SUM ϕ8	Spring	1
43	K-1877	Stud	1
44	ϕ5	Steel Ball	1
45	—	Spring (Dish Type)	1
46	ϕ5	Circlip	1
47	ϕ4	Circlip	2
48	ϕ3	Circlip	1
49	ϕ2	Circlip	1
50	ϕ5	Washer	2
51	ϕ5	Washer	2
52	ϕ3	Washer	2
53	ϕ6	Washer	1
54	M3x6	FT Screw	1
55	M3x16	FT Screw	1
56	M3x15	Plastic Screw	2
58	3003	Reset Lever	1
59	ϕ3	CS Stopper Ring	1
60	C2822A	Reject Spring	1
61	M12-0008-00	DC Motor Unit	1
62	M4x6	Screw	3
63	M3x12	Self Tapping Screw	3
64	M3x12	Flat Hd., Screw	2
		CUEING LEVER ASS'Y	
	T01-0047-00	Cueing Lever Ass'y	
65	T02-0023-00	Main Lever	1
66	T04-0037-00	Lever Stud	1
67	M3x8	Polycarbonate Screw	1
68	T02-0044-00	Cueing Lever	1
69	ϕ4	Cieclip	1
70	T04-0038-03	Cueing Rod	2
71	ϕ2	Circlip	4
72	M2.5	Nut	4
73	—	Tube	4
74	for M2.5	Flat Washer	2
75	T10-0019-00	Spring	1
76	TP 3x8	Self Tapping Screw	2
		MISC.	
77	T10-0006-00	Cord Clamper	1
78	TP 3x8	Self Tapping Screw	1
79	L21-0011-00	Power Transformer	1
80	Y10-0001-00	Rubber Sheet	1
81	Y10-0002-00	Rubber Washer	2
82	TP3x14	Self Tapping Screw	2
83	L50-0001-00	Fuse	2
84	L51-0001-00	Fuse Block	2
85	M3x10A	Self Tapping Screw	2

Note: 1. Part orders must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and/or resistors must be multiple of 10 pcs.

Ref. No.	Part No.	Description	Q'ty
86	P40-0031-00	Power Supply Cord (MP3200)	1
86	P40-0006-00	Power Supply Cord (P2800)	1
87	E02-0001-00	Strip Terminal	1
88	C01-0007-00	Line Capacitor 0.01μF	1
89	R01-0003-00	Carbon Resistor	1
90	TP3x8A	Self Tapping Screw	2
91	T10-0007-00	Cord Clamper	2
92	TP3x14	Self Tapping Screw	1
93	TP3x10	Self Tapping Screw	1
94	P40-0002-00	Phono Cord	1
95	E02-0002-00	Strip Terminal	1
96	P50-0004-00	Shield Fiber	1
97	TP3x8A	Self Tapping Screw	1
98	T06-0007-00	Cord Clamper	1
99	TP3x12A	Self Tapping Screw	1
100	—	Solder Lug	1
101	F02-0035-00	Speed Control Knob (MP3200)	2
101	F02-0040-00	Speed Control Knob (P2800)	2
102	F02-0036-00	Pushbutton (MP3200)	1
102	F02-0038-00	Pushbutton (P2800)	1
103	F02-0037-00	Cue/Reject Knob (MP3200)	2
103	F02-0034-00	Cue/Reject Knob (P2800)	2
TURNTABLE ASS'Y			
	T01-0043-00	Turntable Ass'y	
104	T14-0006-00	Turntable	1
105	A27-0007-00	Pinion Gear	1
106	F10-0002-01	Rubber Mat	1
BOTTOM COVER ASS'Y			
	B08-0022-00	Bottom Cover Ass'y	
107	B09-0017-02	Bottom Cover Ass'y	1
108	V20-0002-00	Motor Cover	1
109	F05-0001-00	Rubber Foot	4
110	3x8	Self Tapping Screw	4
111	H12-0013-00	Caution Label	1
112	TP3x12A	Self Tapping Screw	4
POWER SUPPLY BOARD ASS'Y			
113	P31-0001-00	Power Supply Board Ass'y (Detail See Page 3)	1
114	T04-0026-00	Spacer	4
115	TP3x12A	Self Tapping Screw	4
DUST COVER ASS'Y			
	V10-0010-00	Dust Cover Ass'y	
116	V10-0011-00	Dust Cover	1
117	B11-0006-00	Hinge	2
118	B11-0009-00	Plate	2
119	—	Screw, Flat Head	4
—	H04-0027-00	Cover Sheet	1
ACCESSORIES			
—	H10-0021-00	Instruction Manual (MP3200)	1
—	H10-0024-00	Instruction Manual (P2800)	1
—	Y10-0003-00	EP Adaptor	1
—	Y10-0004-00	Screw Driver	1
PACKING MATERIALS			
—	H01-0023-00	Carton Box (MP3200)	1
—	H01-0026-00	Carton Box (P2800)	1
—	H04-0031-00	Pad, Front	1
—	H04-0032-00	Pad, Rear	1
—	H04-0020-00	Rad, Accessory	1
—	H04-0022-00	Pad, Top	1
—	H04-0037-00	Pad, Tonearm	1
—	H04-0009-00	Poly. Bag	2
—	H04-0010-00	Poly. Bag	1

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